Department of the Navy

Defense Message System (DMS) Implementation Update

Copernicus Requirements Working Group

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JCS DMS Transition Plan

Phase I: GENSER Migration

- 1 Mar 00: **> 50%** Organizational User Accounts functional
- 15 May 00: **> 75%** Organizational User Accounts functional
- 15 Sep 00: **100%** Organizational User Accounts fully operational and all GENSER traffic migrated to DMS

ctional defined as ability to send/receive DMS traffic,
y not be capable of relinquishing AUTODIN connectiv

JCS DMS Transition Plan

Phase II: SPECAT/SHD Migration

- Feb 01: ACP 120/Rel 3.0 Passes OT/Fielding Decision
  - X.509 V3 Certificates
- Aug 01 (Fielding Decision + 6 Months):
  - All DMS users transitioned to V3 Certificates
  - All SPECAT/SHD traffic transitioned to DMS

All organizational messaging migrated to DMS except
Tactical, IC, EAM and Allies (DTH Connectivity)

JCS DMS Transition Plan

Phase III: DMS Transition Hub Closure

- Intelligence Community transition to DMS by FY03
- Tactical transition to DMS by FY03
- EAM transition to DMS-based standalone network (or alternative)
- Allied Gateway replaces DTHs

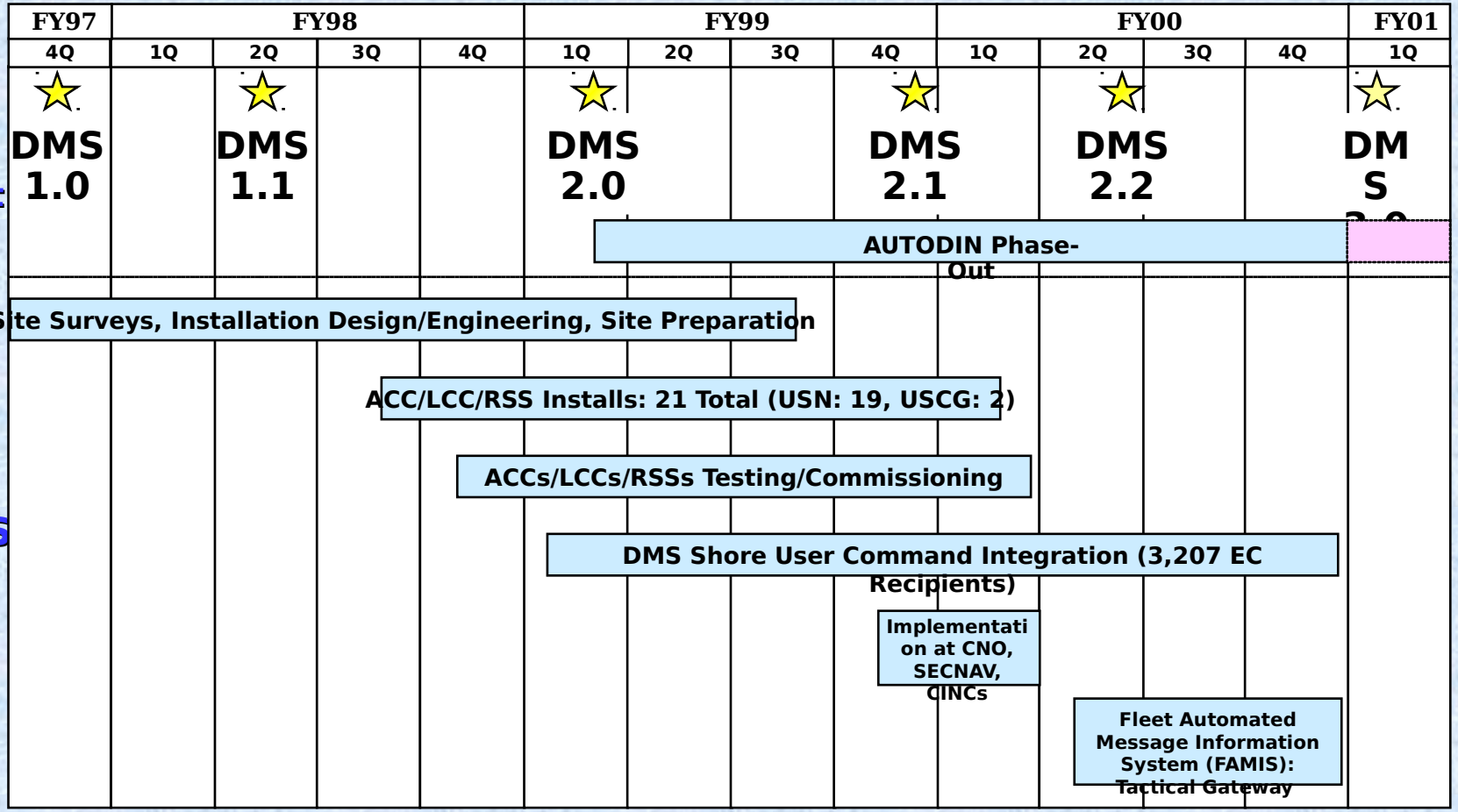
Plan to close DMS Transition Hubs by the end of FY03 endorsed in the Jul 99 MCEB

DMS Program Schedule

PMW 152 Naval Messaging Systems

DISA Software Deployment Schedule

Navy Shore DMS Schedule



DISA Provided Software Functionality

DMS 1.0: Basic Functionality; Writer to Reader; Initial Backbone; MFI, IOT&E

DMS 1.1: Global Directory; Commercial upgrades (NT 4.0, Exchange 5.0, Lotus 4.5.1); Robust backbone; MFI improvement

DMS 2.0: Outlook 98; Commercial server upgrades (Exchange 5.5, Lotus 4.6); Y2K compliance; SBU/Secret

DMS 2.1: Draft/Review/Release support; High Assurance Guard; INE; TS/Genser

DMS 2.2: Backbone Upgrades, User/Enclave enhancements, Operating System enhancements

DMS 3.0 (ACP 120): Allied interoperability, automated message level access controls for compartments,

DMS Release 2.1

- **OT completed late July**
- **Critical Operational Issues:**
  - Message Handling Service — Favorable
  - Directory Service — Favorable
  - Security — Unfavorable
  - Survivability — Favorable
  - Suitability — Favorable
  - Usability — Favorable
- **Security Retest scheduled for 29 Nov**
- **8 Sep Fielding Decision: *Approved***

Shore DMS Implementation Goal

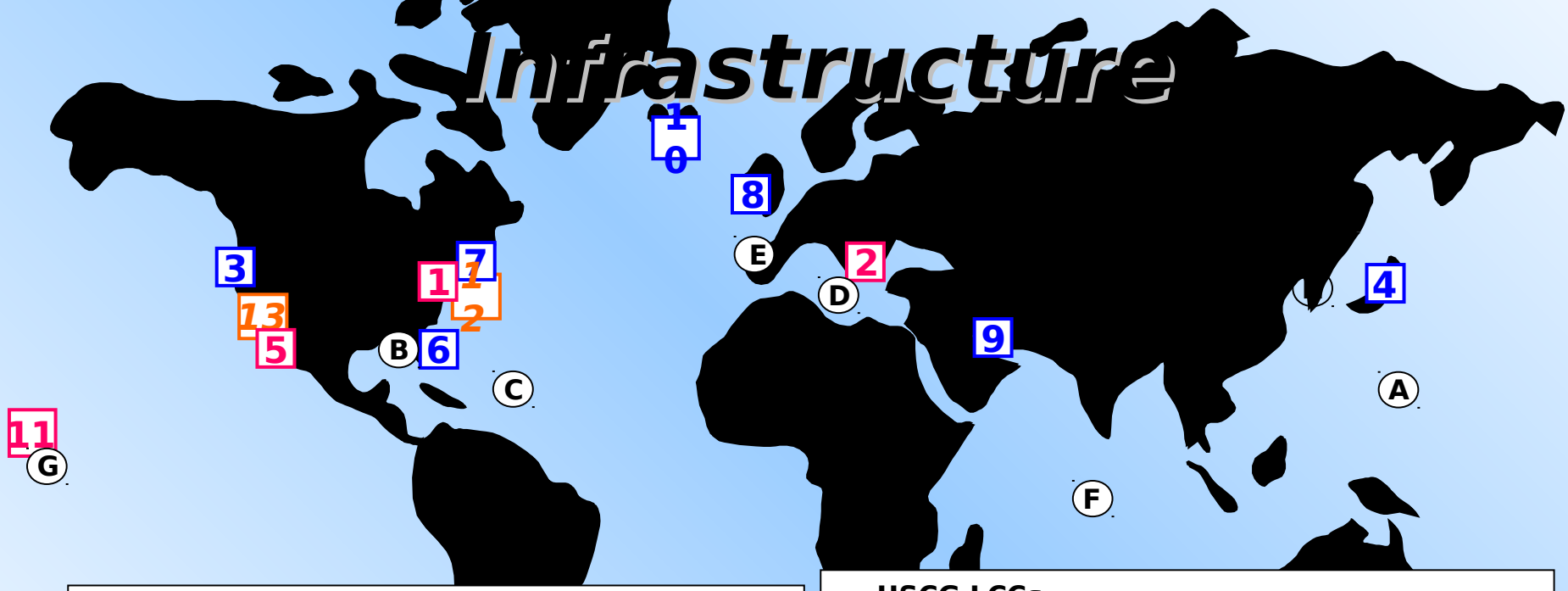
	Number of ACCs/ LCCs/RSSs	Number of Organizations
Navy	19	3,20
USCG	2	7
USM	19	1,11
C	40	2
Total		2,06

Systems in place by Sep 2000

5

ACC Area Control Center
LCC Local Control Center
RSS Remote Server Site

Navy and Coast Guard DMS Shore Infrastructure



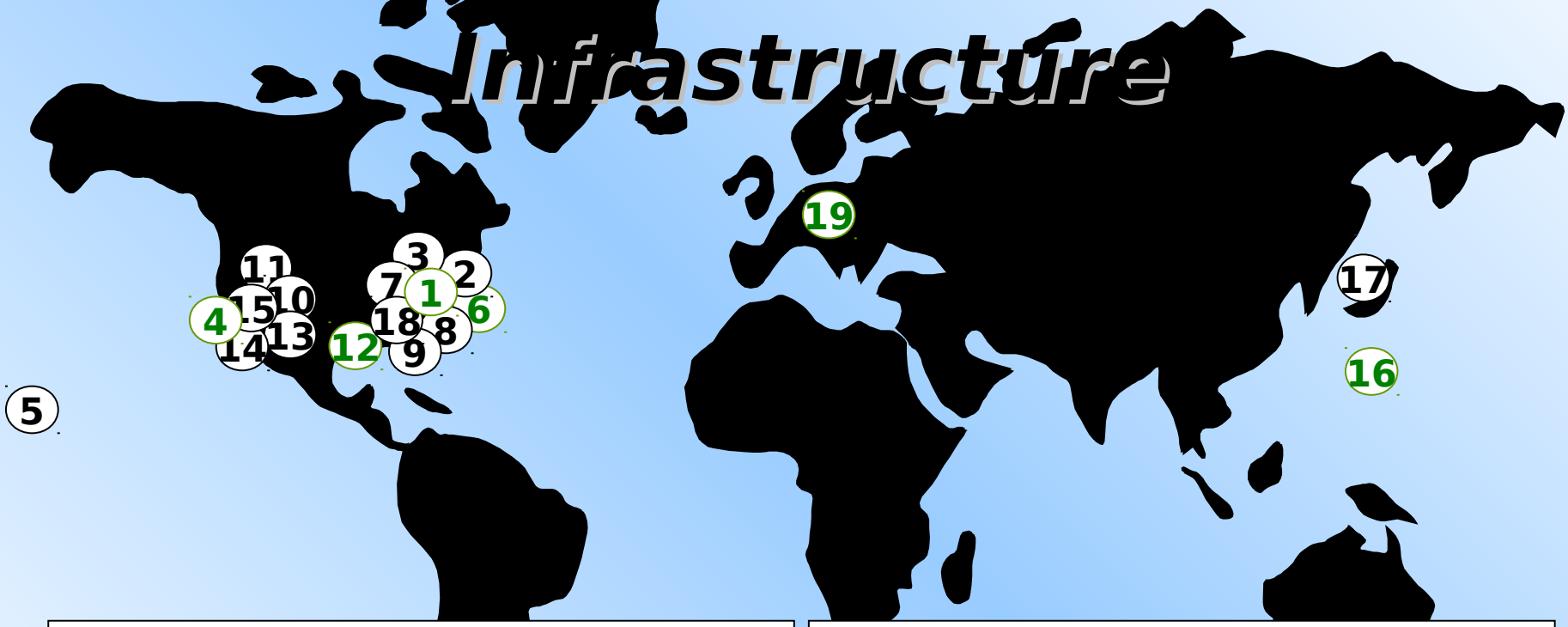
ACC & LCC Sites	Commissioning
1. NCTAMS LANT Norfolk VA (ECs 382)	9/98 ✓
2. NCTAMS EURCENT Naples IT (ECs 83)	8/98 ✓
3. NCTS Puget Sound WA (ECs 242)	2/99 ✓
4. NCTS Far East Yokosuka JA (ECs 282)	2/99 ✓
5. NCTS San Diego CA (ECs 700)	2/99 ✓
6. NCTS Jacksonville FL (ECs 350)	4/99 ✓
7. NCTS Washington DC (ECs 393)	4/99 ✓
8. NCTAMS EURCENT Det London UK (ECs 36)	5/99 ✓
9. NCTAMS EURCENT Det Bahrain (ECs 32)	7/99 ✓
10. NCTS Iceland (ECs 41)	7/99 ✓
11. NCTAMS PAC Wahiawa HI (ECs 38)	7/99 ✓

USCG LCCs	Commissioning
12. CAMSLANT Chesapeake VA (ECs 515)	7/99 ✓
13. CAMSPAC Pt. Reyes CA (ECs 514)	10/99 ✓

Remote Server Sites	Commissioning
A. NCTS Guam (ECs 52)	3/99 ✓
B. NCTS Pensacola FL (ECs 301)	5/99 ✓
C. NCTS Roosevelt Roads (ECs 35)	5/99 ✓
D. NCTS Sicily IT (ECs 50)	6/99 ✓
E. NCTAMS EURCENT Det Rota SP (ECs 23)	7/99 ✓
F. NCTS Diego Garcia (ECs 31)	8/99 ✓
G. NCTAMS PAC Det Camp Smith (ECs 116)	9/99 ✓
H. NCD Chinhae KO (ECs 20)	11/99

ECs ✓ Enabling Capabilities (Organizations) Commissioned

Marine Corps DMS Shore Infrastructure



ACC & LCC Sites	Commissioning
1. MCB Quantico	6/98 ✓
2. HQMC	7/98 ✓
3. MCLB Albany	6/98 ✓
4. MCB Camp Pendleton	8/98 ✓
5. MCBH Kaneohe Bay)	2/99 ✓
6. MCB Camp Lejeune	3/99 ✓
7. MARFORLANT	4/99 ✓
8. MCAS Cherry Point	4/99 ✓
9. MCRD Parris Island	5/99 ✓
SBU	
10. MGACC 29 Palms	6/99 ✓

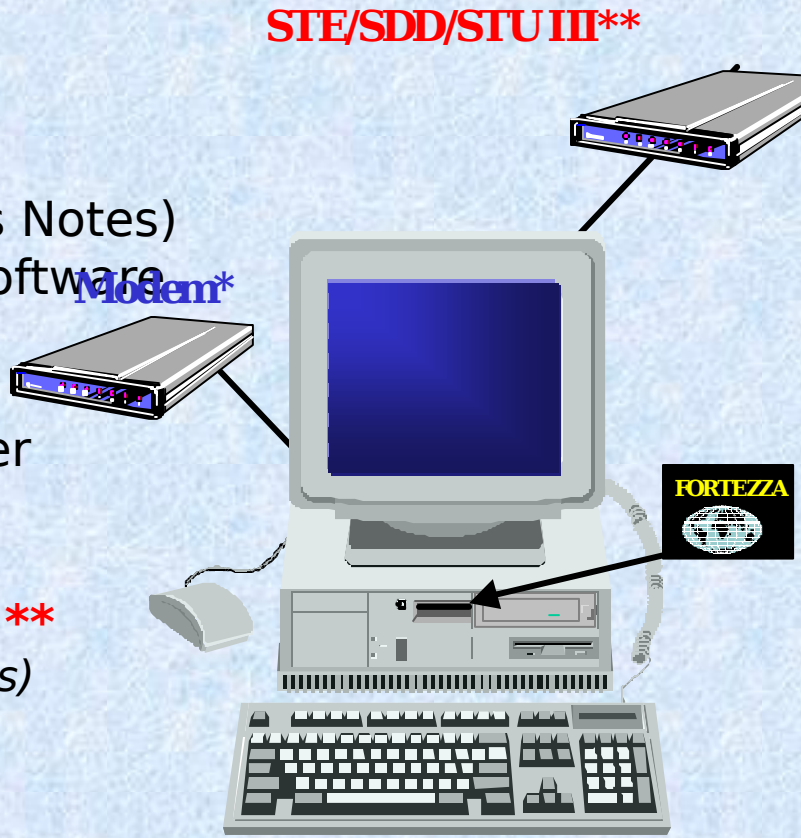
ACC & LCC Sites	Commissioning
11. MCLB Barstow	6/99 ✓
12. MARFORRES	7/99 ✓
13. MCAS Yuma	7/99 ✓
SBU	
14. MCRD San Diego	8/99 ✓
SBU	
15. MCAS Miramar	8/99 ✓
16. Camp Butler	8/98 ✓
17. MCAS Iwakuni	9/98 ✓
18. MCAS Beaufort	4/99 ✓
SBU	

Enabling Capability (EC)

DMS Organizational Messaging at Shore User Command

EC consists of:

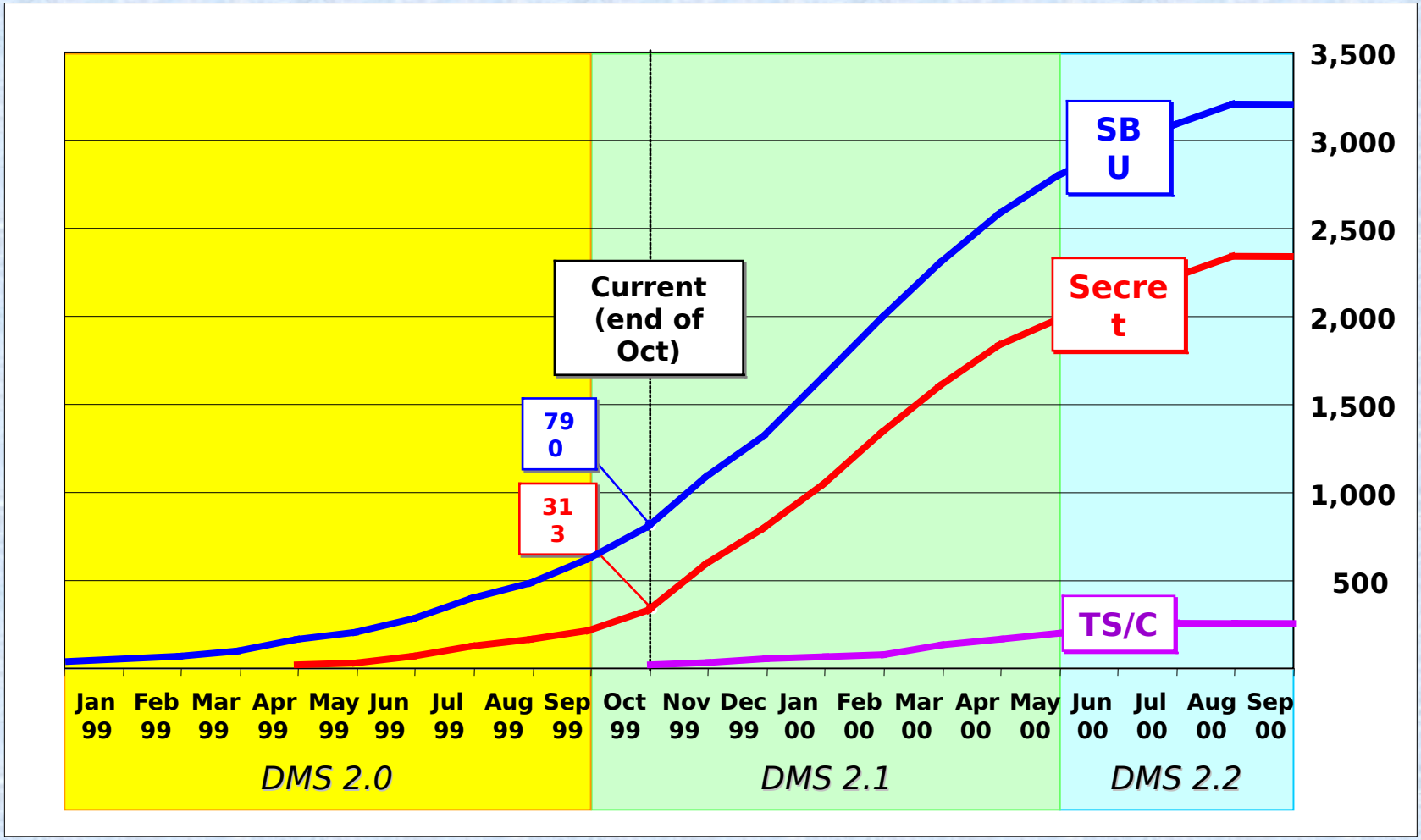
- IT-21 & Y2K Compliant PC (1 or 2*)
- 17” monitor
- Windows NT Operating System
- DMS User Agent (MS Outlook or Lotus Notes)
- TurboPrep message text formatting software
- DMDS software
- Anti-Virus software
- PCMCIA Type II FORTEZZA Card Reader
- Removable Hard Drives*
- Modem*
- Secure Data Device (SDD/STE/STU III)**
  Configurations (and additional components) vary, depending on command means of access to the LCC/RSS
- Installation Support
  - User Agent Training
  - Hardware/Software Installation



* Site Dependent
** Provided by site

PMW 152
Naval Messaging Systems

DMS (Genser) EC Implementation at Navy User Commands



DMS EC Implementation Plan

PMW 152
Naval Messaging Systems

Number of EC Installations (by Servicing ACC/LCC/RSS)	Total ECs Required	Cumulative ECs as of this Report	Apr 99	May 99	Jun 99	Jul 99	Aug 99	Sep 99	Oct 99	Nov 99	Dec 99	Jan 00	Feb 00	Mar 00	Apr 00	May 00	Jun 00	Jul 00	Aug 00
ECONUS Region																			
NCTAMS LANT Norfolk VA	382	103	15	20	13	8	5	9	8	20	30	35	35	35	35	35	35	19	-
NCTS Jacksonville FL	350	106	-	-	30	34	14	6	22	17	17	17	17	44	44	22	22	22	22
NCTS Washington DC	393	35	-	2	-	-	-	10	23	35	25	30	30	39	40	40	40	40	39
NCTS Pensacola FL	301	133	-	-	10	3	36	33	51	48	35	40	40	5	-	-	-	-	-
NCTS Roosevelt Roads PR	35		-	-	-	-	-	-	-	-	-	-	15	20	-	-	-	-	-
NCTS Iceland	41	31	-	-	2	4	15	-	10	-	10	-	-	-	-	-	-	-	-
EURCENT Region																			
NCTAMS EURCENT Naples IT	83	83	21	-	12	14	12	15	-	-	-	-	-	-	-	-	-	-	-
NCTAMS EURCENT Det London UK	36	18	-	6	-	3	9	-	-	-	-	18	-	-	-	-	-	-	-
NCTS Sicily IT	50	32	-	4	-	-	-	2	26	18	-	-	-	-	-	-	-	-	-
NCTAMS EURCENT Det Rota SP	23	21	-	-	1	4	-	13	3	2	-	-	-	-	-	-	-	-	-
NCTS Bahrain	32	4	-	-	-	4	-	-	-	12	16	-	-	-	-	-	-	-	-
WCONUS Region																			
NCTS San Diego CA	700	82	7	3	2	-	1	35	15	67	67	67	67	88	87	44	44	44	43
NCTS Puget Sound WA	242	46	17	-	-	-	-	-	-	18	19	19	19	31	30	15	15	15	15
PAC Region																			
NCTAMS PAC Wahiawa HI	38	10	-	-	-	-	-	2	8	-	-	12	10	6	-	-	-	-	-
NCTS Far East Yokosuka JA	282	52	-	-	6	43	3	-	-	-	-	60	68	24	23	55	-	-	-
NCTS Guam	52	24	-	8	-	-	-	6	10	-	16	12	-	-	-	-	-	-	-
NCTS Diego Garcia	31	1	-	-	-	-	-	1	-	30	-	-	-	-	-	-	-	-	-
NCTAMS PAC Det Oahu Camp Smith HI	116	9	-	-	-	-	-	-	9	16	-	30	20	20	21	-	-	-	-
NCD Chinhae KO	20		-	-	-	-	-	-	-	-	-	-	20	-	-	-	-	-	-
Navy Total	**3,207**	**790**	**75**	**43**	**76**	**117**	**95**	**132**	**185**	**283**	**235**	**340**	**341**	**312**	**280**	**211**	**156**	**140**	**119**
Cumulative Total			**142**	**185**	**261**	**378**	**473**	**605**	**790**	**1,073**	**1,308**	**1,648**	**1,989**	**2,301**	**2,581**	**2,792**	**2,948**	**3,088**	**3,207**

Other Major Navy DMS Implementations

- **CNO/SECNAV installation underway**
  - 450 DMS 2.1 clients delivered, N6 being installed
  - OPNAV TCC installation complete, upgrade underway
- **PACOM**
  - 200 DMS 2.1 clients and server software delivered
  - Camp Smith LCC upgraded to Release 2.1
- **USJFCOM**
  - 100 DMS 2.1 clients and server software delivered
- **SPAWAR**
  - SBU & Secret DMS Enabling Capabilities in place
  - Receiving organizational messages via DMS
    - Currently dual delivery (DMS & GateGuard)
    - Conversion of Command profiles in process

Fleet DMS Issues

- **Issue: Fleet concerns with security**
- **Resolution:**
  - Infrastructure: Firewalls, IDSs being installed at all ACCs/LCCs/RSSs
  - VPN being implemented to accommodate unapproved protocols (SNMP, NTP)
  - Anti-virus software being installed on servers and clients
  - Providing STUs/SDDs for classified dial-in protection
  - Providing separate computers for classified and unclassified message traffic

Fleet DMS Issues (cont'd)

- **Issue: Concern that ACC/LCC/RSS staffing is not adequate to accommodate transition to DMS**
- **Resolution:**
  - $25M/year plus-up over FYDP requested by CNO
  - Contractors being used where feasible (Puerto Rico)
  - Consolidated help desk functions; saved ~200 billets
  - Working with BUPERS to remedy flow of trained personnel to sites

Fleet DMS Issues (cont'd)

- **Issue: Concern that training is inadequate**
- **Resolution:**
  - FTC Norfolk training is being improved
    - Enhanced curriculum; pre-requisites being identified early (courses, CBT, Net-g)
  - JITC Mobile Training Teams visiting sites
  - Onsite reps at ACCs provided by CNO
  - Documentation: CONOPS, NTPs, and SOPs continually upgraded
  - OJT and CBT provided to user commands

Fleet DMS Issues (cont'd)

- **Issue: Concern that there is inadequate bandwith to support operation of DMS**
- **Resolution:**
  - Utilizing NIPRNET/SIPRNET connectivity where feasible; improved DMS messaging and directory services
  - Supplying modems with increased data rate to support large Navy dial-in population
  - When available, NMCI and BLII will be utilized to improve service

DMS Road Ahead

Migrate DMS & Legacy messaging systems to NMCI

- DMS listed as a Basic Service to be provided by NMCI
- DMS and Legacy messaging systems listed in Statement of Objectives provided to Industry
- Industry to survey operational systems as part of proposal to Government

NMCI Procurement Timeline

– Request for Industry Comments	30 Sep 99
– Industry Comments due	29 Oct 99
– RFP Release	Dec 99
– Proposals/Revised Proposals	Jan 00/Apr 00
– Contract Award	May 00
– IOC	Dec 01

PMW 152
Naval Messaging Systems

Summary

- **DMS infrastructure (ACCs, LCCs, RSSs) for SBU/Secret organizational messaging: *complete*** *(except Korea — install underway)*
- **All commands can move to DMS**
  - SBU and Secret Genser: ***now***
  - TS Genser in FY00 Q2
- **Resources for implementation at commands *in place* — hardware, software, and install funding**
- **In order to meet JCS transition plan, *we need you to implement DMS at your command***
  - Know and support your schedule
  - Get trained
  - Use it

DMS Points of Contact

Regional Project Officer (RPO) (SPAWAR PMW 152)

- LT Amos Hardy (ECONUS) hardya@spawar.navy.mil (619) 524-7578
- Jeff Olson (EURCENT) olsonjl@spawar.navy.mil (619) 524-7577
- Pete Almazan (WCONUS) almazanp@spawar.navy.mil (619) 524-7576
- Pete Almazan (PAC) almazanp@spawar.navy.mil (619) 524-7576

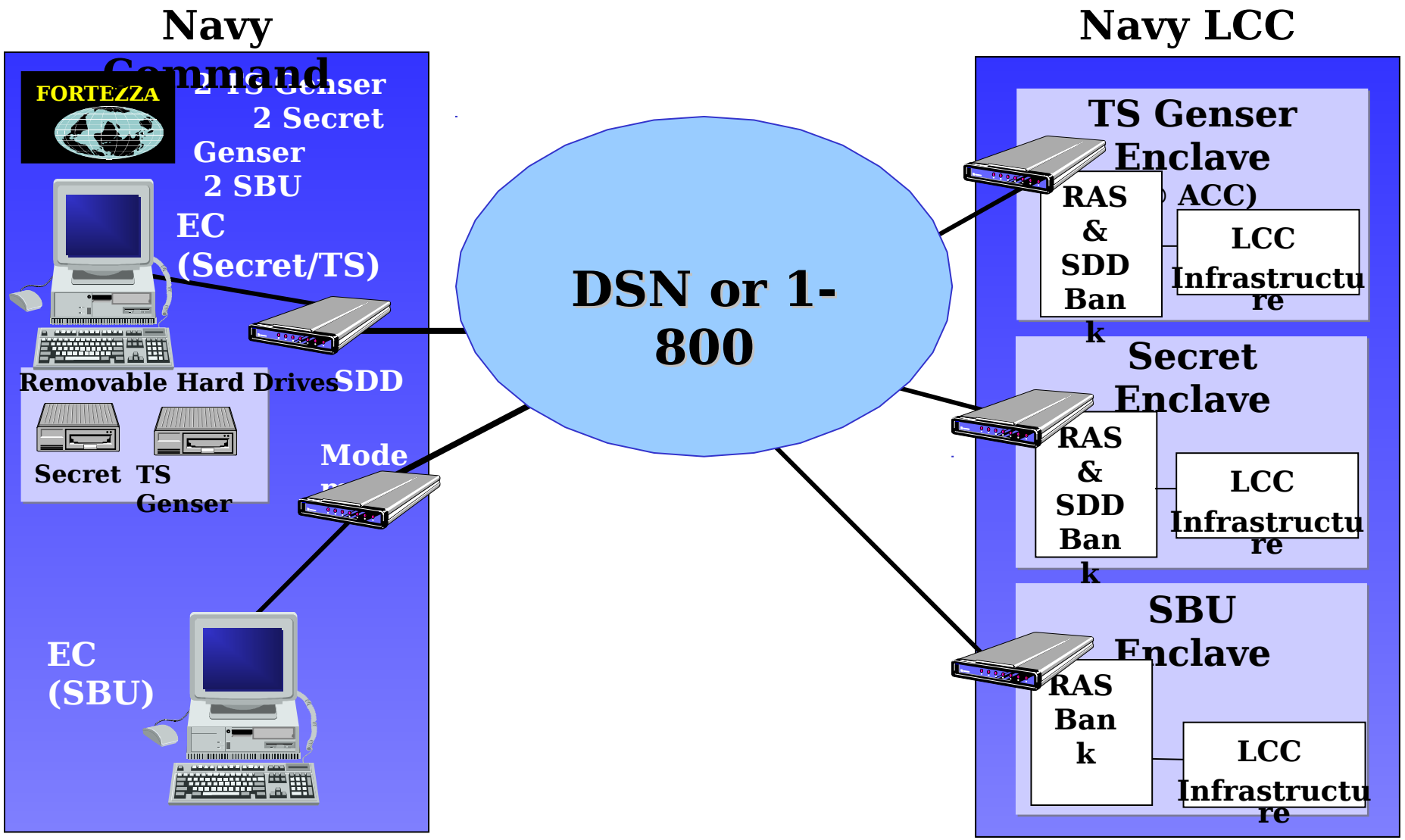
EFA Regional Coordinator (SPAWAR Systems Centers)

- Shari Neibch (ECONUS) neibchs@spawar.navy.mil (803) 974-6949

PMW 152
Naval Messaging
Systems

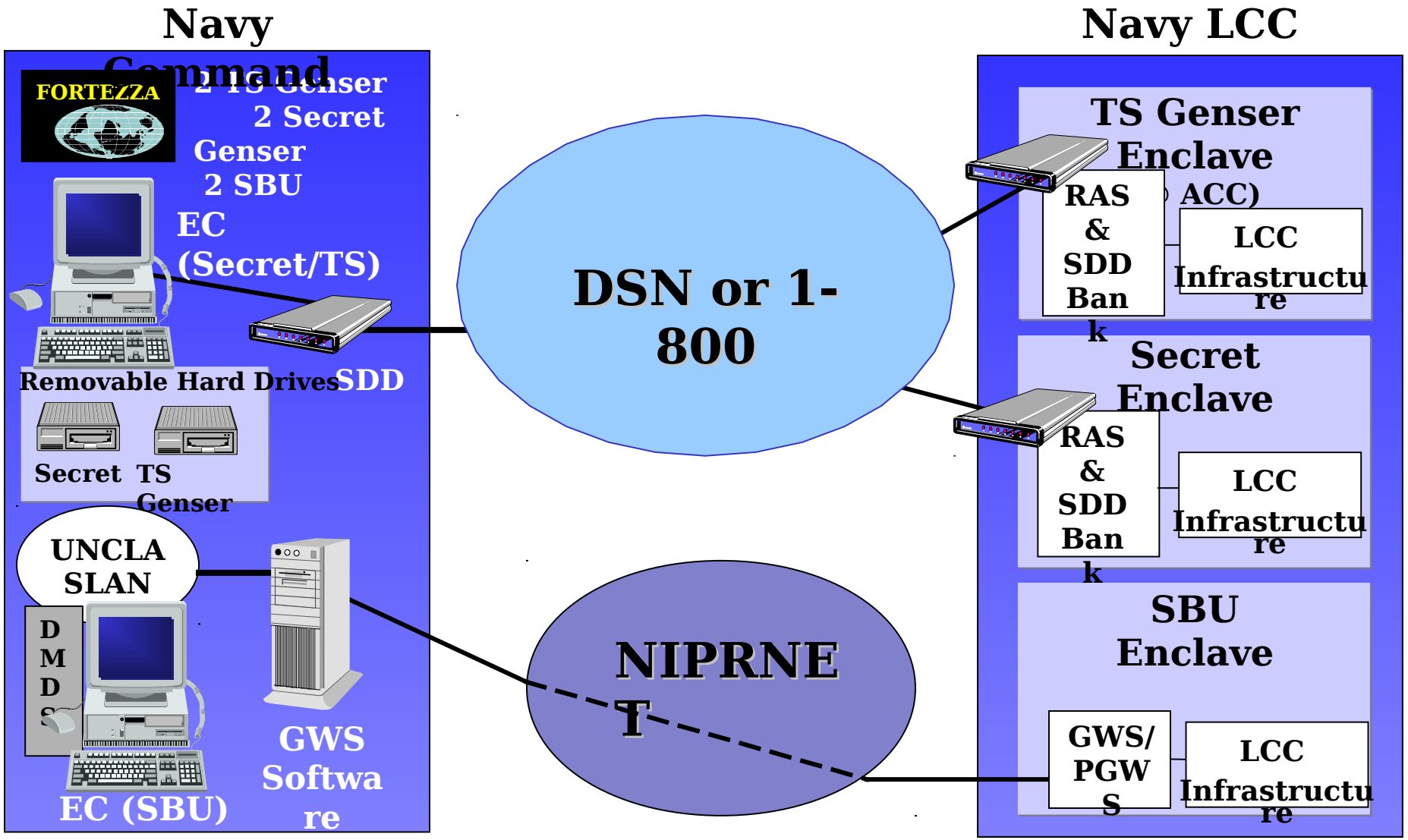
DMS EC Configuration

Dial-In Command



DMS EC Configuration

LAN with NIPRNET



Special Solutions for Navy Message Processing Requirements

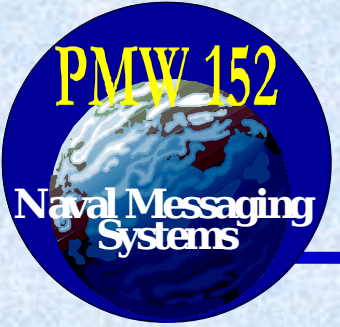
- **Defense Message Dissemination System (DMDS)**
  - Navy-developed software add-on for incoming message profiling within recipient organization
- **TurboPrep Text Editor**
  - USMTF structured message preparation and validation tool
- **High Precedence Notification**
  - Automated User notification (via Pager) of incoming High Precedence messages (e.g., after normal duty hours)

CINC Implementation

PMW 152 is Executive Agent for DMS implementation at CINCUSACOM and USCINCPAC — will provide:

**100 copies delivered; remainder 60 days after receipt of FY00 funds*
***200 copies delivered; remainder 60 days after receipt of FY00 funds*

SECNAV/CNO installation is under



2301292 JUL 99 CINCPACFLT Requirements for DMS Fielding

Requirement	Status	Remarks
Sites with WAN connections must be protected by firewall		Not all user sites have firewalls — will become dial-in. VPN may be an option, but not near-term.
Management protocols not authorized through firewalls	√	
DMS sites must have Intrusion Detection System (IDS)		Regional IDS being installed by CINCPACFLT to provide coverage for NCTAMS PAC Wahiawa & Det Oahu; remaining IDSs being installed by PMW 161 in CY00
DMS workstations must meet IT-21 standards	√	
DMS workstations must have Anti-Virus software	√	
Separate computers for Classified and Unclassified messaging	√	
Timely replacement of Fortezza cards	√	If outside driving distance or 24 hour FedEx delivery, organization to request backup via CINCPACFLT
Limit files to text-only official messages		Recommend 1-2 MB limitation; other services still plan to use attachments

All Navy ACCs/LCCs/RSSs will be behind firewalls